

## **LISTING OF CLAIMS**

The listing of claims provided below replaces all prior versions, and listings, of claims in the application.

- 5           1.       (Currently Amended) An apparatus defined to communicate electronically with each of a Serial Attached SCSI (SAS) protocol device and a Serial ATA (SATA) protocol device, comprising:
- a phy configured to connect the apparatus to each of the SAS protocol device and the SATA protocol device;
- 10           wired endian logic configured to communicate through the phy, the wired endian logic configured to interface a wired endian format of the apparatus with each of a big endian format of the SAS protocol device and a little endian format of the SATA protocol device; and
- internal circuitry configured to operate in accordance with the wired endian
- 15   format,
- wherein the wired endian logic includes receipt logic including,
- receiving circuitry defined to receive a sequence of bytes in a native format
- associated with a device from which the data sequence of bytes is to have been
- transmitted,
- 20           discrimination circuitry defined to identify the sequence of bytes in native format
- as one of a control sequence of bytes and a data sequence of bytes,
- data sequence processing circuitry defined to perform receipt processing on the
- data sequence of bytes while in native format, the receipt processing including
- unscrambling of the data sequence of bytes and cyclic redundancy check data generation,
- 25   and

conversion circuitry defined to convert the sequence of bytes from the native format to the wired endian format.

2. (Original) An apparatus defined to communicate electronically with  
5 each of a SAS protocol device and a SATA protocol device as recited in claim 1, wherein the internal circuitry configured to operate in accordance with the wired endian format is defined to store and process a sequence of bytes in transmit order.

3. (Original) An apparatus defined to communicate electronically with  
10 each of a SAS protocol device and a SATA protocol device as recited in claim 2, wherein the sequence of bytes is represented as a sequence of four bytes being stored in consecutive memory locations, the transmit order defined to begin with a lowest memory address associated with the sequence of bytes and progress consecutively through the remaining memory addresses associated with the sequence of bytes.

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4. (Original) An apparatus defined to communicate electronically with  
each of a SAS protocol device and a SATA protocol device as recited in claim 1, wherein the wired endian logic includes transmission logic including,

discrimination circuitry defined to identify a sequence of bytes in wired endian  
20 format as one of a control sequence of bytes and a data sequence of bytes,

data sequence processing circuitry defined to convert the data sequence of bytes  
from the wired endian format to a native format associated with a device to which the  
data sequence of bytes is to be transmitted, the data sequence processing circuitry also  
being defined to perform pre-transmission processing on the data sequence of bytes while  
25 in native format, the data sequence processing circuitry being further defined to convert

the data sequence of bytes from the native format back to the wired endian format upon completion of pre-transmission processing, and

transmission circuitry defined to transmit the sequence of bytes in wired endian format.

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5. (Original) An apparatus defined to communicate electronically with each of a SAS protocol device and a SATA protocol device as recited in claim 4, wherein the control sequence of bytes represents one of a Serial Attached SCSI (SAS) primitive and a Serial ATA (SATA) primitive.

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6. (Original) An apparatus defined to communicate electronically with each of a SAS protocol device and a SATA protocol device as recited in claim 4, wherein the data sequence processing circuitry is defined to represent the native format as the big endian format for the SAS protocol device and the little endian format for the SATA  
15 protocol device.

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7. (Original) An apparatus defined to communicate electronically with each of a SAS protocol device and a SATA protocol device as recited in claim 4, wherein the pre-transmission processing includes cyclic redundancy check data generation and  
20 scrambling of the data sequence of bytes.

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8. (Cancelled)

9. (Currently Amended) An apparatus defined to communicate electronically  
25 with each of a SAS protocol device and a SATA protocol device as recited in claim 1

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[[8]], wherein the control sequence of bytes represents one of a Serial Attached SCSI (SAS) primitive and a Serial ATA (SATA) primitive.

10. (Currently Amended) An apparatus defined to communicate electronically with each of a SAS protocol device and a SATA protocol device as recited in claim 1 [[8]], wherein the receiving circuitry is defined to represent the native format as the big endian format for the SAS protocol device and the little endian format for the SATA protocol device.

10 11-20. (Cancelled)